# DOROTHY A. ROWE DWDAR 1-3 DINWIDDIE COUNTY

## VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-VI: LAND APP	LICATION AGREE	MENT - BIOSOLIDS	AND INDUSTR	AL RESIDUALS
A. This land application agree here as "Landowner", and remains in effect until it is to the Landowner in the event individual parcels identified longer be authorized to rec	erminated in writing by of a sale of one or mo in this agreement cha	either party or, with re ore parcels, until owner nges, those parcels for	spect to those par ship of all parcels which ownership	cels that are retained by changes. If ownership of
Landowner: The Landowner is the owner the agricultural, silvicultural attached as Exhibit A.	er of record of the real or reclamation sites in	property located in dentified below in Table	) nwdd ke_ , V a1 and identified o	rginia, which includes n the tax map(s)
Table 1.: Parcels aut	horized to receive bio	solids, water treatment	residuals or other	industrial sludges
Tax Parcel ID	Tax Parcel ID	<u>Tax</u> Pa	rcel ID	Tax Parcel ID
TM 51 P21				
☐ Additional parcels containing Lan	d Application Sites are iden	tified on Supplement A (chec	k if applicable)	
Check one:	e Landowner is the so	le owner of the propert multiple owners of the	ies identified herei	n. ed herein.
In the event that the Lando within 38 months of the late 1. Notify the purchase later than the date 2. Notify the Permitter The Landowner has no oth notify the Permittee immed	est date of biosolids aper or transferee of the cof the property transfere of the sale within two er agreements for land	plication, the Landown applicable public acces r; and o weeks following propert application on the field	er shall: s and crop manag erty transfer. ds identified hereir	ement restrictions no  1. The Landowner will
for application or any part of incorrect.	of this agreement beco	mes invalid or the infor	mation herein con	tained becomes
The Landowner hereby gra agricultural sites identified a inspections on the land ide purpose of determining cor	above and in Exhibit A ntified above, before, c	.  The Landowner also during or after land app	grants permission lication of permitte	for DEQ staff to conduct d residuals for the
Class B biosolids Wate   ☐ Yes ☐ No ☐ Yes	er treatment residuals es 🛘 No	Food processing v  ☑ Yes □ No		ndustrial sludges □ No
Dorothy A. Rowe	Dorothy	Rowe	1560	96.11s Bridge R
Landowner - Printed Name, Titl	e Signature		Mailing Ad	dress & Phone Number
Permittee:Recyc Systems, Inc_, the manner authorized by the VP/ plan prepared for each land a	A Permit Requiation and	in amounts not to exceed	rial residuals on the the rates identified i	Cenney, Va. 2387 434-244-7880 Landowner's land in the In the nutrient management the Code of Virginia.
The Permittee agrees to notify specifically prior to any particular to any particula	the Landowner or the L	andowner's designee of t	he proposed schedu	le for land application and
☐ I reviewed the document(s) document(s) available to DEC	assigning signatory auth	nority to the person signin	g for landowner abo	ve. I will make a copy of this
Permittee – Authorized Represe	entative Signature	PO E	Box 562 Remingt Mailing Ad	on, Virginia 22734 dress
Printed Name			- -	

Page 1 of 2

#### VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Recyc Systems, Inc County or City: Dinwiddie
Landowner: Dorothy A. Rowe
<b>3</b>
Landowner Site Management Requirements:
I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.
I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.
I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:
<ol> <li>Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.</li> </ol>
<ul> <li>2. Public Access</li> <li>a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.</li> <li>b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;</li> <li>c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.</li> </ul>
<ul> <li>3. Crop Restrictions: <ul> <li>a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.</li> <li>b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,</li> <li>c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.</li> <li>d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;</li> <li>e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).</li> </ul> </li> </ul>
<ul> <li>4. Livestock Access Restrictions: Following biosolids application to pasture or hayland sites: <ul> <li>a. Meat producing livestock shall not be grazed for 30 days,</li> <li>b. Lactating dairy animals shall not be grazed for a minimum of 60 days.</li> <li>c. Other animals shall be restricted from grazing for 30 days;</li> </ul> </li> </ul>
5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
<ol> <li>Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).</li> </ol>
Dorothy Rowe 10/17/15  Landowner's Signature Date
Farm Operator Signature  5/12 Lenn D Q  Mailing Address & Phone Number  McKenney, vA 23872  484-955-7814

#### **Landowner Coordination Form**

This form is used by the Permittee to identify properties (tax parcels) that are authorized to receive biosolids and/or industrial residuals, and each of the legal landowners of those tax parcels. A Land Application Agreement-Biosolids and Industrial Residuals from original signature must be attached for each legal landowner identified below prior to land application at the identified parcels.

Permittee:

Recyc Systems, Inc.

Site Name:

Dorothy A. Rowe

County or City:

**Dinwiddie County** 

Please Print

Signature not required on this page

	v = = = = = = = = = = = = = = = = = = =
Tax Parcel ID(s)	Landowners (s)
51-21	Dorothy A. Rowe

## **FARM DATA SHEET**

SITE NAME:	Harvey L Rowe	COUNTY:	Dinwiddie
OWNER:	Dorothy A. Rowe	OPERATOR:	Hugh Rogers
OWNER'S	15609 Gills Bridge Road	OPERATOR'S	5112 Lennie Road
ADDRESS:	McKenney, VA 23872	ADDRESS:	McKenney, VA 23872
OWNER'S TELEPHONE:	434-294-7880	OPERATOR'S TELEPHONE:	804-478-4631
GENERAL FARM TYPE:	Pasture	CELL PHONE:	434-955-7814
# CATTLE:	10	EMAIL:	-
LAGOON or SLURRY:	None	LATITUDE:	37.055
TOPO QUAD:	Darvills	LONGITUDE:	-77.836
COMMENTS:		METHOD OF DETERMINATION:	Online Maps
The new Dorothy	A. Rowe book is the old	Harvey L. Rowe book.	
		*	
		i.	BB/AB
J.			7 77 70

## RECYC SYSTEMS, INC FIELD DATA SHEET

Field	Gross	Environi	mentally So	ensitive	Soils		Tax	FSA
Identification	Acres	Water Table	Bed Rock/ Shallow	Surf/ Leach	Freq Flood	Hydro Map	Map #	Tract#
DWDAR 1	9.7	85	•		5 <b>.</b> 5	CU 11	51-21	T 529 F 4, 5
DWDAR 2	11.2	×=	<u></u>	-	18	CU 11	51-21	T 529 F 1
DWDAR 3	9.3	÷	37	<u> </u>	200	CU 11	51-21	T 529 F 3, 7
TOTAL ACRES IN SITE	30.2							

Page 1 of 2

Report Number: 19-130-0501

**Account Number: 70594** 



7621 Whitepine Road, Richmond, VA 23237 Main 804-743-9401 ° Fax 804-271-6446 www.waypointanalytical.com

Send To: Recyc Systems Inc

Susan Trumbo

8455 Whiteshop Road Culpepper VA 22701

"Every acre...Every year."TM

Grower: Harvey Rowe Dinwiddie

**SOIL ANALYSIS REPORT** 

Analytical Method(s):

SMP Buffer pH Mehlich 3 Loss On Ignition Water pH

Date Received: 05/10/2019

Date Of Analysis: 05/13/2019

Date Of Report: 05/13/2019

CI- ID		ОМ	W/V	ENR		Phosphorus		Potassium	Magnesium	Calcium	Sodium	р	Н	Acidity	C.E.C
Sample ID Field ID	Lab Number	% Rate	Soil Class	lbs/A	M3 ppm Rate	ppm Rate	ppm Rate	K ppm Rate	Mg ppm Rate	Ca ppm Rate	Na ppm Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
DWHLR-1	11041	1.9 L		81	132 VH			28 VL	30 VL	814 H		6.3	6.88	0.5	4.9
DWHLR-2	11042	2.3 L		88	69 H			30 VL	44 L	751 H		5.7	6.82	1.1	5.3

0		Perce	nt Base	Saturati	on	Nitrate	Sulfur	Zir	C	Manga	nese	Iron	Copper	Boron	Soluble Salts	
Sample ID Field ID	К %	Mg %	Ca %	Na %	H %	NO <sub>3</sub> N	S	Zı		Мі		Fe	Cu	В	SS	
	/0	/0	70	70	70	ppm Rate	ppm Rate	ppm	Hate	ppm	Rate	ppm Rate	ppm Rate	ppm Rate	ms/cm Rate	
DWHLR-1	1.5	5.1	83.1		10.2			5.3	Н	12	М					
DWHLR-2	1.5	6.9	70.8		20.8			4.3	Н	9	L					

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: Waypoint Analytical Virginia, Inc.

Pauric McGroary

Page 2 of 2

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Send To: Recyc Systems Inc Susan Trumbo

8455 Whiteshop Road Culpepper VA 22701

"Every acre...Every year."™

Grower: Harvey Rowe Dinwiddie

Date Received: 05/10/2019

Date Of Report: 05/13/2019

#### SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N Ib/A	Phosphate P <sub>2</sub> O <sub>5</sub> Ib/A	Potash K <sub>2</sub> O Ib/A	Magnesium Mg Ib/A	Sulfur S Ib/A	Zinc Zn Ib/A	Manganese Mn lb/A	Iron Fe Ib/A	Copper Cu Ib/A	Boron B Ib/A
DWHLR-1	Adjust pH to 6.8	0	1.0				20			2			
DWHLR-2	Adjust pH to 6.8	0	1.5				18			3			

#### Comments:

Sample(s): DWHLR-2 Crop: Adjust pH to 6.8

Apply dolomitic lime to raise pH and improve the magnesium level.

If dolomitic lime is not used, apply required magnesium with magnesium oxide. Epsom Salts, K-Mag or Sul-PO-Mag.

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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Pauric McGroary

#### THE PLANNER IS NOT STATE CERTIFIED

#### Nutrient Management Plan Balance Sheet (Fall, 2020-Winter, 2022) Dorothy A. Rowe Planner: John Doe

Tract: 529 Location: Dinwiddie

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Сгор	Needs N-P-K (Ibs/ac)	Leg /Man Resid	Manure/Biosid Rate & Type (season)	IT (d)	Man/Bios N-P-K (Ibs/ac)	Net = Needs - appld N-P-K (lbs/ac)	P	Commercial N-P-K (lbs/ac)	Notes
4, 5/DWDAR 1(N)	10/10	2020	Grass Pasture	50-30-40	0/0				50-30-40	N/A		
1/DWDAR 2(N)	11/11	2020	Grass Pasture	50-30-40	0/0			10	50-30-40	N/A		
3, 7/DWDAR 3(N)	9/9	2020	Grass Pasture	50-30-40	0/0				50-30-40	N/A		

**Commercial Application Methods:** 

br - Broadcast ba - Banded sd - Sidedress

Notes:

#### Soil Test Summary

Tract	Field	Acre	Date	P2O5	K20	Lab	Soil pH	Lime Date	rec. lime tons/Ac
529	DWDAR 1	10	[No Test]		W	=			
529	DWDAR 2	11	[No Test]						
529	DWDAR 3	9	[No Test]						

#### Field Productivities for Major Crops

Tract Name	Tract/ Field	Field Name	Acres	Predominant Soil Series	Corn	Small Grain	Alfalfa	Grass Hay	Environmental Warnings
529	529/4, 5	DWDAR 1	10	Appling	IVa	11	111	III	
	529/1	DWDAR 2	11	Appling	IVa	11	111	Ш	
	529/3, 7	DWDAR 3	9	Appling	IVa	11	111	III	

#### Yield Range

Field Productivity Group	Corn Grain Bu/Acre	Barley/Intensive Wheat Bu/Acre	Std. Wheat Bu/Acre	Alfalfa Tons/Acre	Grass/Hay Tons/Acre
1	>170	>80	>64	>6	>4.0
I	150-170	70-80	56-64	4-6	3.5-4.0
11	130-150	60-70	48-56	<4	3.0-3.5
V	100-130	50-60	40-48	NA	<3.0
V	<100	<50	<40	NA	NA

#### **Farm Summary Report**

Plan:

**New Plan** 

Fall, 2020 - Winter, 2022

Farm Name:

**Dorothy A. Rowe** 

Location: Specialist: Dinwiddie John Doe

N-based Acres: 30.2 P-based Acres: 0.0

Tract Name: 529

FSA Number: 529

Location:

Dinwiddie

Field Name:

**DWDAR 1** 

Total Acres:

9.70 Usable Acres: 9.70

FSA Number: 4, 5 Tract: 529

Location:

Dinwiddie

Slope Class: B

Hydrologic Group: B

Riparian buffer width: 0 ft Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE

PH P

Κ

Lab

[NO TEST]

Soils:

**PERCENT** 

SYMBOL

SOIL SERIES

100 2B Appling

#### Field Warnings:

Field Name: DWDAR 2

Total Acres: 11.20 Usable Acres: 11.20

FSA Number: 1 Tract: 529

Location: Dinwiddie

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft Distance to stream: 0 ft

#### Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P K Lab

[NO TEST]

Soils:

PERCENT SYMBOL SOIL SERIES

57 2B Appling 43 2C Appling

Field Warnings:

Field Name: DWDAR 3

Total Acres: 9.30 Usable Acres: 9.30

FSA Number: 3, 7 Tract: 529

Location: Dinwiddie

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft Distance to stream: 0 ft

#### Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P K Lab

[NO TEST]

Soils:

PERCENT SYMBOL SOIL SERIES

14 2C Appling 86 2B Appling

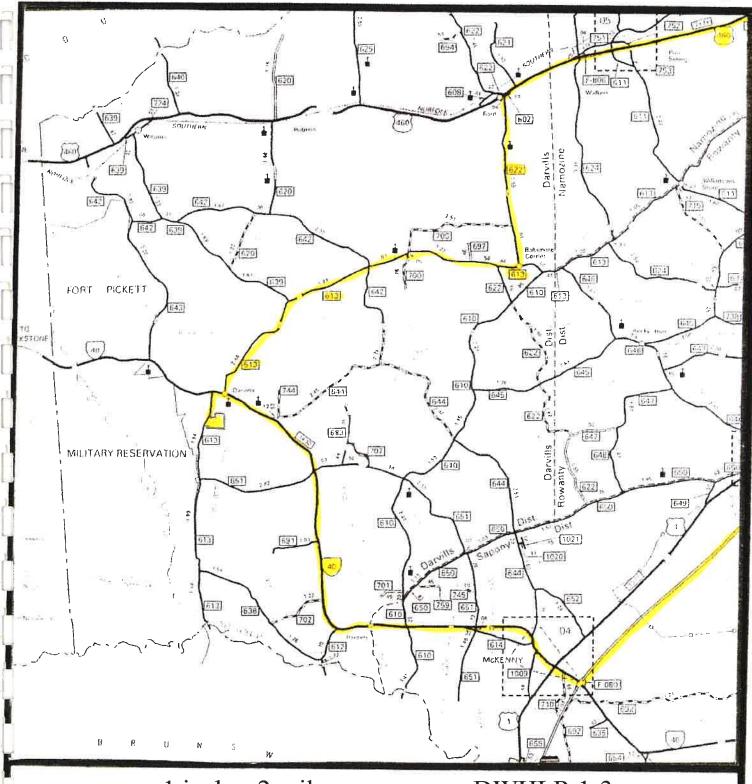
Field Warnings:

## MAPS

## Recyc Systems...

(Biosolids Land Application)

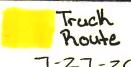




Scale:

1 inch = 2 miles

DWHLR 1-3

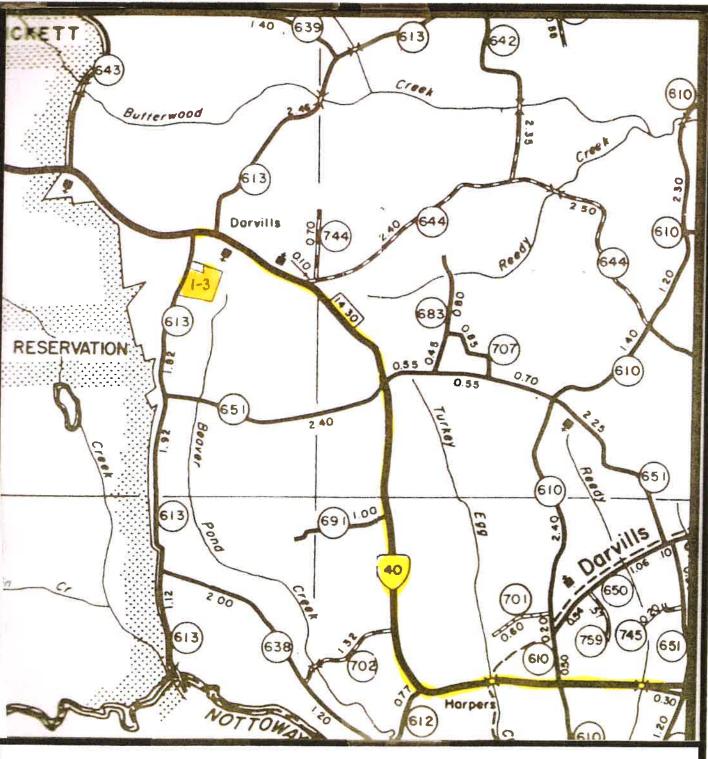


VICINITY MAP

## Recyc Systems...

(Biosolids Land Application)





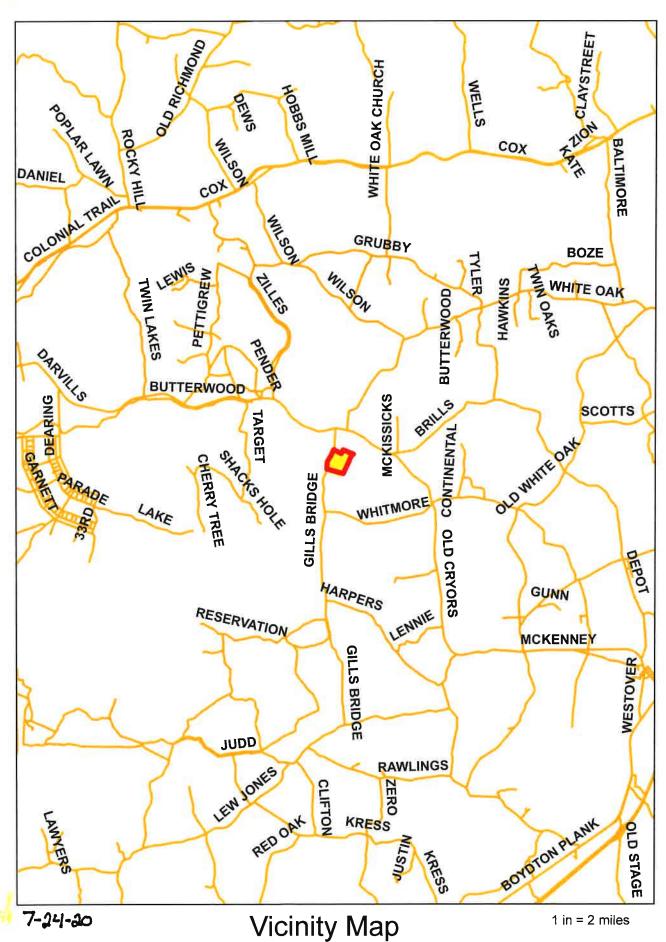
**Scale:** 1 inch = 1 mile

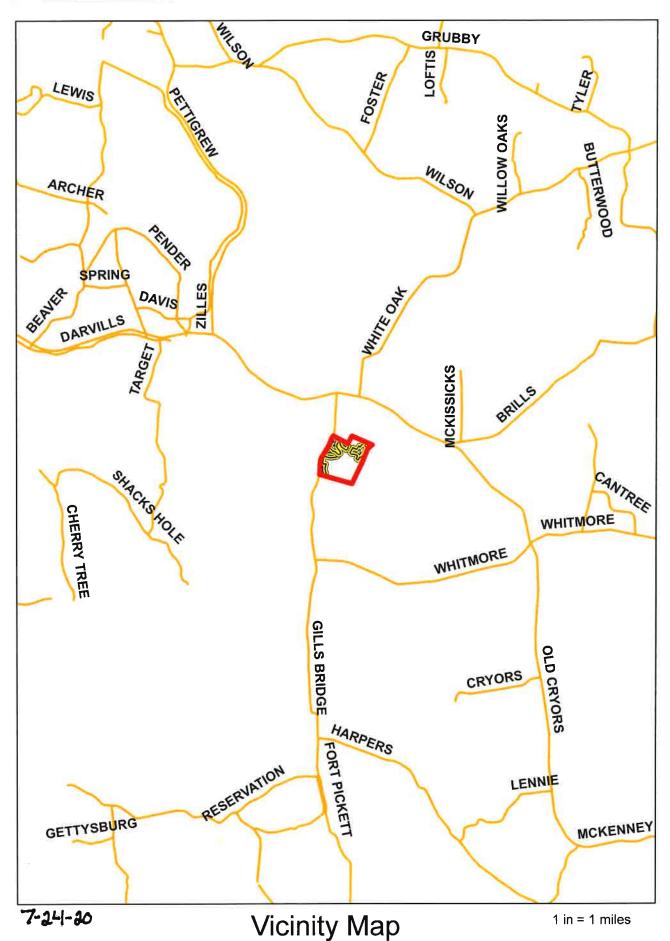
DWHLR 1-3



**VICINITY MAP** 

N

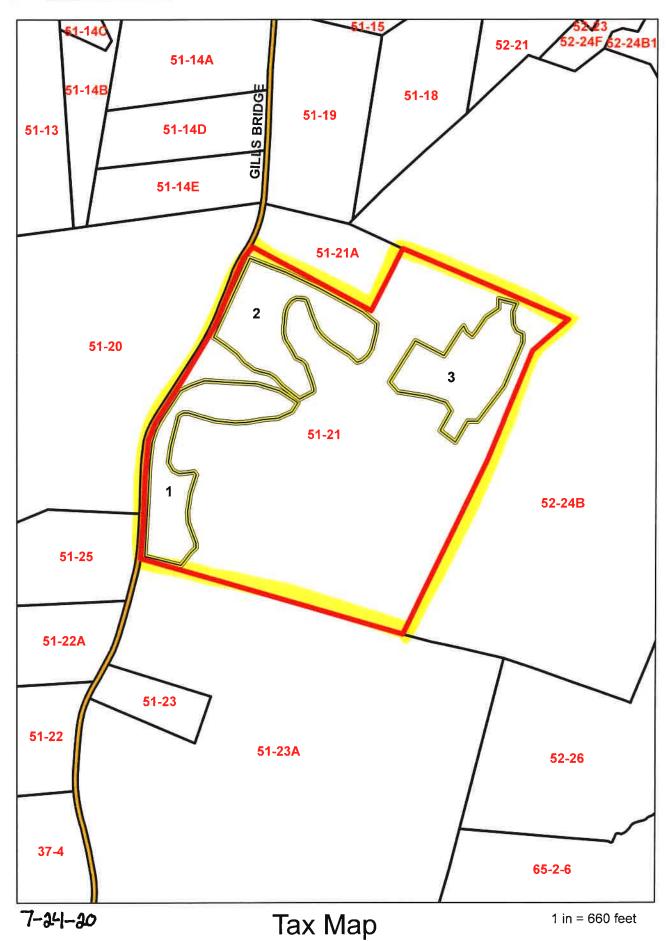






Dorothy A. Rowe

**DWDAR** 



N

### **ADJOINING LANDOWNERS**

## Dorothy A. Rowe

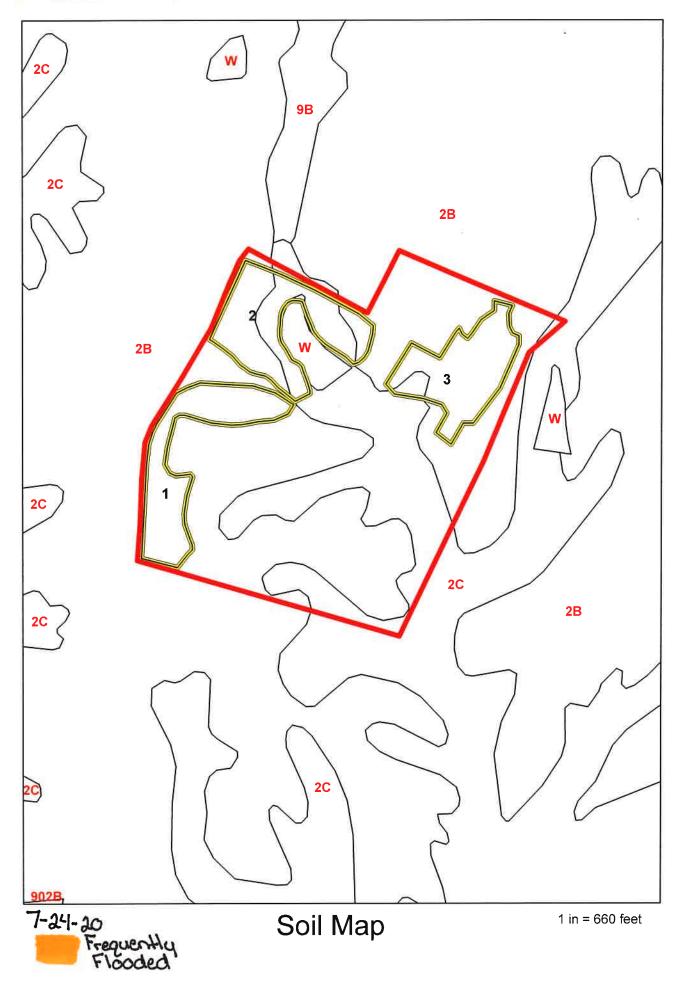
## **Dinwiddie County**

Tax Map	Parcel #	Owner Name(s)
51	14E	MAJS Investments LLC
	18	Darvills Association Inc C/O Bridgman Rennis W jr Reg. Agent
	19	Dorothy M Rowe
-	20	Richard G Wilson
	23A	Southside AG Enterprises LLC
	24B	T&K Property Investment LLC
	25	Wainwright Horace Vunnally



Dorothy A. Rowe

**DWDAR** 



N





A

7-24-20

**Aerial Map** 



#### **Dinwiddie County, Virginia**



**Farm 710** 

**Tract 529** 

2020 Program Year

Map Created June 03, 2020

#### **Common Land Unit**

Non-Cropland Cropland

Tract Boundary

## Wetland Determination Identifiers

- Restricted Use
- ▼ Limited Restrictions
- Exempt from Conservation Compliance Provisions

Compliance i Tovisions

Tract Cropland Total: 37.88 acres

United States Department of Agriculture (USDA) Farm Service Agency (FSA) maps are for FSA Program administration only. This map does not represent a legal survey or reflect actual ownership; rather it depicts the information provided directly from the producer and/or National Agricultural Imagery Program (NAIP) imagery. The producer accepts the data 'as is' and assumes all risks associated with its use. USDA-FSA assumes no responsibility for actual or consequential damage incurred as a result of any user's reliance on this data outside FSA Programs. Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact

### **Legend For Site Plan**

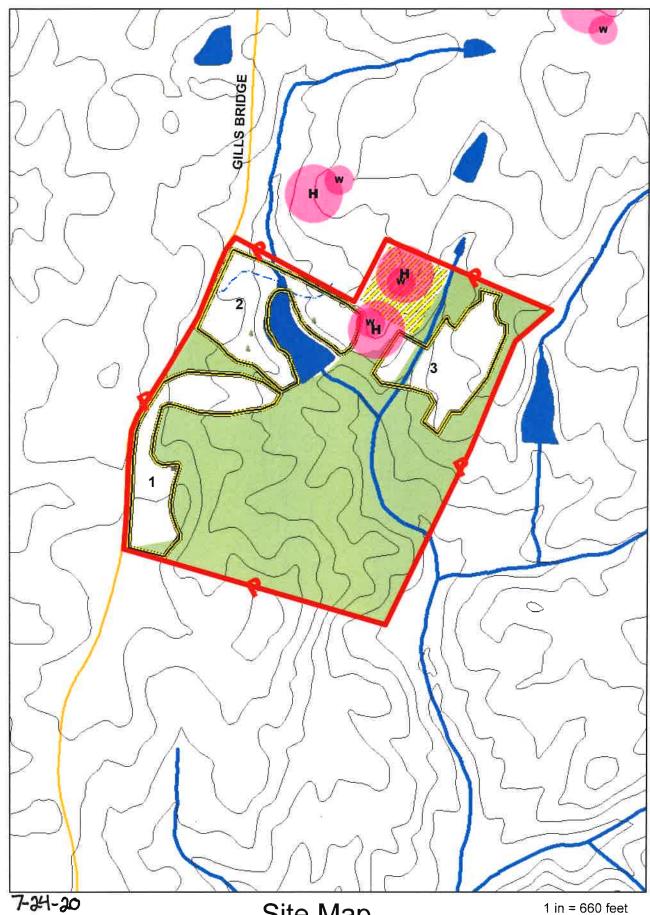
Symbol	Feature	Minimum Setback
H/W	House and Well	200 feet from occupied dwelling * 100 feet from water supply wells or springs
w	Well or Spring	100 feet from water supply wells or springs
	Streams or Surface Water	35 feet with 35 foot vegetated buffer 100 feet without vegetated buffer
ш	Wet Spot	Ş
	Trees and Woods	
	Private Drive	
R	Rock Area/Rock Outcrop	25 feet from rock outcrops 50 feet from limestone rock outcrops
≡	Severely Eroded Spot	18 Inch minimum depth of soil
5	Sink Hole	100 feet from open sinkholes 50 feet from closed sinkholes
	State Road	10 feet from side of roadway
	Fence / Field Boundary	
_P _ P _ P	Property Line	100 feet from property line *
SL S	Slope	15% maximum
	Hashed out Area	No application

<sup>\*</sup>Buffer can be reduced or waived upon written consent from landowner.



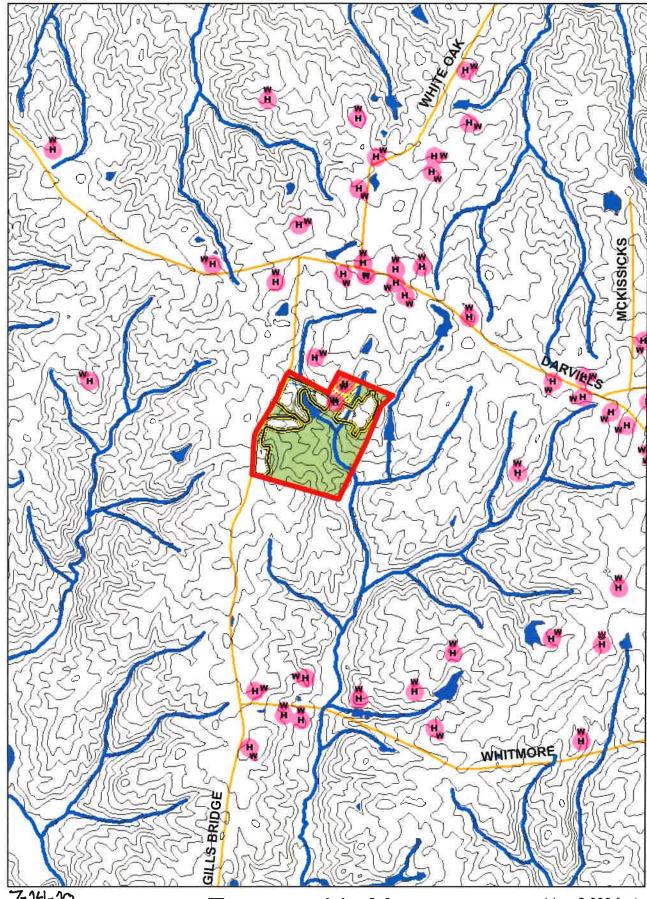
Dorothy A. Rowe

**DWDAR** 



Site Map





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Topographic Map

1 in = 2,000 feet